

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A ~~program method for allowing~~causing a processing unit to function as a setting device for setting a memory control device which accesses a memory module having a plurality of memory cards implementing a memory device therein, the ~~program allowing the processing unit to function as method~~ comprising the steps of:

_____ providing a memory attribute information acquisition unit forcard acquiring memory attribute information therein indicating ~~an attribute~~ attributes of the memory module from an attribute memory provided in the memory module; and

_____ providing a transfer rate setting unit connected to the memory attributes information acquisition unit, and for determining, based solely on the a plurality of memory ~~attribute information~~ attributes, a data transfer rate setting value as a rate of an upper limit value of a data transfer rate relative to a maximum data transfer rate, supplying a data rate transfer ~~and for~~ setting the determined data transfer rate setting value in the memory control device, the upper limit value of the data transfer rate being at which the memory control device accesses the memory module, and the maximum data transfer rate being at which the memory control device is able to access the memory module.

2. (Currently amended) The ~~Program method~~ according to claim 1, wherein the transfer rate setting unit determines an upper limit value of a number of memory accesses issued by the memory control device per unit time as the data transfer

rate setting value based on the memory attribute information, and sets the determined upper limit value in the memory control device.

3. (Currently amended) The Program method according to claim 1, wherein the transfer rate setting unit determines a value indicating a number of idle cycles while the memory control device is not performing memory accesses as the data transfer rate setting value based on the memory attribute information, each idle cycle being inserted between one cycle while the memory control device is performing a memory access and the other to set the determined value in the memory control device.

4. (Currently amended) The Program method according to claim 1, wherein the memory module generates heat by being accessed by the memory control device, and

the transfer rate setting unit determines a data transfer rate setting value for maintaining a temperature of the memory module at a predetermined upper limit temperature or lower based on the memory attribute information, and sets the determined data transfer rate setting value in the memory control device.

5. (Currently amended) The Program method according to claim 4, wherein, as a setting for maintaining the memory module at the upper limit temperature or lower, the transfer rate setting unit determines, as the data transfer rate setting value, a smaller value in a case where a heating value of the memory module, which is determined in accordance with the memory attribute information, is larger as compared

with a value in a case where the heating value of the memory module, which is determined in accordance with the memory attribute and position information, is smaller, and sets the determined data transfer rate setting value in the memory control device.

6. (Currently amended) The ~~Program~~ method according to claim 4, further comprising an upper limit temperature acquisition unit for acquiring an upper limit temperature at which the memory module is operated,

wherein the transfer rate setting unit determines a data transfer rate setting value for maintaining the temperature of the memory module at the upper limit temperature or lower based on the memory ~~attribute~~ attributes, and sets the determined data transfer rate setting value in the memory control device.

7. (Canceled)

8. (Currently amended) The ~~Program~~ method according to claim 1, wherein the setting device is a device for setting the data transfer rates for a plurality of the memory modules attached into an information processing apparatus,

the memory attribute information acquisition unit acquires the memory attribute information of the plurality of memory modules for each thereof in association therewith,

the transfer rate setting unit creates individual setting values as data transfer rate setting values set when the memory modules are singly attached into the information processing apparatus for each of the plurality of memory modules based on the memory attribute information of the memory modules, and determines a value between maximum

and minimum values of the individual setting values, each of which is created so as to correspond to each of the plurality of memory modules, as a data transfer rate setting value for the plurality of memory modules.

9. (Currently amended) The Program method according to claim 1, wherein the setting device is a device for setting the data transfer rate setting values for a plurality of the memory modules attached into an information processing apparatus,

the memory attribute information acquisition unit acquires the memory attribute information of the plurality of memory modules for each thereof in association therewith,

the transfer rate setting unit creates individual setting values as data transfer rate setting values set when the memory modules are singly attached into the information processing apparatus for each of the plurality of memory modules based on the memory attribute information of the memory modules, and determines a minimum value of the individual setting values, each of which is created so as to correspond to each of the plurality of memory modules, as a data transfer rate setting value for the plurality of memory modules.

10. (Currently amended) The Program method according to claim 1, wherein the memory attribute information acquisition unit acquires type identification information identifying a type of any of the memory module and the memory device as the memory attribute information, and

the transfer rate setting unit determines the data transfer rate setting value in accordance with the type identification information, and sets the determined data transfer rate setting value in the memory control device.

11. (Currently amended) The Program method according to claim 1, wherein the memory attribute information acquisition unit acquires manufacturer identification information identifying a manufacturer who has manufactured any of the memory module and the memory device as the memory attribute information, and the transfer rate setting unit determines the data transfer rate setting value in accordance with the manufacturer identification information, and sets the determined data transfer rate setting value in the memory control device.

12. (Currently amended) The Program method according to claim 1, wherein the memory attribute information acquisition unit acquires number-of-devices information indicating a number of the memory devices implemented in the memory module as the memory attribute information, and

the transfer rate setting unit determines, as the data transfer rate setting value, a smaller value in a case where the number of memory devices, which is indicated by the number-of-devices information, is larger, as compared with a value in a case where the number of memory devices, which is indicated by the number-of-devices information, is smaller, and sets the determined data transfer rate setting value in the memory control device.

13. (Currently amended) The ~~Program~~ method according to claim 1, wherein the memory module includes a board implementing at least one memory device thereon,

the memory attribute information acquisition unit acquires, as the memory attribute information, memory bank information indicating whether the memory module is a memory module of single-sided implementation, which implements the memory device on one side of the board, or a memory module of double-sided implementation, which implements the memory devices on both sides of the board, and

the transfer rate setting unit determines the data transfer rate setting value in accordance with the memory bank information, and sets the determined data transfer rate setting value in the memory control device.

14. (Currently amended) The ~~Program~~ method according to claim 13, wherein the transfer rate setting unit determines, as the data transfer rate setting value, a smaller value in a case where the memory bank information indicates the memory module of the double-sided implementation as compared with a value in a case where the memory bank information indicates the memory module of the single-sided implementation, and sets the determined data transfer rate setting value in the memory control device.

15. (Currently amended) A ~~Program~~ method for and operable with an information processing apparatus, comprising the steps of:
_____ providing a memory module implementing a memory device therein;

~~_____~~ providing a memory attribute information acquisition unit ~~for~~ and acquiring memory attribute information indicating an attribute of the memory module from an attribute memory provided in the memory module;

~~_____~~ providing a memory control device ~~for~~ accessing the memory module; and

~~_____~~ providing a transfer rate setting unit ~~for~~ determining, based solely on the memory attribute information, a data transfer rate setting value as a rate of an upper limit value of a data transfer rate relative to a maximum data transfer rate, and for setting the determined data transfer rate setting value in the memory control device solely from said data memory attributes, the upper limit value of the data transfer rate being at which the memory control device accesses the memory module, and the maximum data transfer rate being at which the memory control device is able to access the memory module.

16. (Currently amended) A computer readable recording medium recording the ~~program~~ method according to claim 1.

17. (Currently amended) A setting method for setting a memory control device which accesses a memory module implementing a memory device therein, the method comprising the steps of:

~~_____~~ acquiring a plurality of memory attribute ~~attributes~~ information indicating an ~~attribute~~ attributes of the memory module from an attribute memory provided in the memory module; and

~~_____~~ determining, based solely on the memory attribute information, a data transfer rate setting value as a rate of an upper limit value of a data transfer rate relative to a

maximum data transfer rate, and for setting the determined data transfer rate setting value in the memory control device, the upper limit value of the data transfer rate being contained in a data base at which the memory control device accesses the memory module, and the maximum data transfer rate being at which the memory control device is able to access the memory module.

18. (Canceled)

19. (New) A method for causing a processing unit to function as a setting device for setting a memory control device which accesses a memory module having a plurality of memory cards implementing a memory device therein, the method comprising the steps of:

providing a memory attribute information acquisition unit card acquiring memory attribute information therein indicating attributes of the memory module from an attribute memory provided in the memory module; and

providing a transfer rate setting unit connected to the memory attributes information acquisition unit, and determining, based solely on a plurality of memory attributes and the position of multiple memory cards, a data transfer rate setting value as a rate of an upper limit value of a data transfer rate relative to a maximum data transfer rate, supplying a data rate transfer setting the determined data transfer rate setting value in the memory control device, the upper limit value of the data transfer rate being at which the memory control device accesses the memory module, and the maximum data

transfer rate being at which the memory control device is able to access the memory module.

20. (New) The method according to claim 19, wherein the transfer rate setting unit determines a data transfer rate setting value for maintaining the temperature of the memory module at the upper limit temperature or lower based on the memory attributes and position of the card, and sets the determined data transfer rate setting value in the memory control device.